

Electroplating

ARGUNA® 3430 CYANID-FREE HARD SILVER ELECTROLYTE

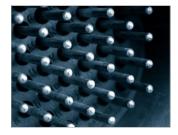


For deposition of wear-resistant silver layers with high hardness

ARGUNA® 3430 is an alkaline, cyanide-free electrolyte for the deposition of technically functional silver layers.

The electrolyte does not contain any toxic cyanide compounds and can therefore be used in a simplified way under the increasing environmental and safety requirements. The deposited layers have excellent abrasion resistance and are particularly suitable for the application of highly stressed electrical contact surfaces. An excellent thermal resistance improves the reliability and lifetime of these contact systems.

ARGUNA® 3430 is ideally suited for rack and barrel applications. Coating thicknesses up to 40 μm are possible without any problems.



Advantages

- Cyanide-free, significantly reduced exposure to hazardous substances
- Excellent wear resistance of the coatings
- Excellent thermal resistance
- Improved reliability of contact systems
- Ideal for rack and barrel operation

Applications

- E-Mobility / Automotive
- Charging connectors
- High Power Contacts

ARGUNA® 3430 **CYANID-FREE HARD SILVER ELECTROLYTE**

TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	cyanide-free, alkaline
Metal content	20 (18 - 30) g/l
pH value	10.4 (10.2 - 10.6)
Operating temperature	30 (25 - 45) °C
Current density range	0.5 - 1.5 A/dm²
Plating speed	1 μm in 1.5 min at 1.0 A/dm²

Coating characteristics		
Coating	Hard silver	
Purity	>97 wt.% Ag	
Colour of deposit	white	
Hardness of deposit HV 0.015 (Vickers) approx. values	170 - 190 HV (after deposition), approx. 150 HV (after aging)	
Density	ca. 10.5 g/cm³	

YOUR CONTACT

Do you have a specific question or would you like a no-obligation quote calculation? Our specialist will be happy to help you with any technical questions you might have.



Markus Legeler Manager Sales International

Mail:

markus.legeler@eu.umicore.com Phone: +49 (0) 7171 607 - 204



The information and statements contained herein are based on our experience in the fields of research and applied technology and are believed to be accurate at the time of publication, but - unless agreed in writing - we make no warranty with respect thereto, including but not limited to any results to be obtained. This product information sheet in the English language prevails any translation.

www.ep.umicore.com